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TITLE : QUANTITATIVE DETERMINATION METHOD OF TRANSFERRIN

ABSTRACT : PURPOSE: To make easy and efficient quantitative determination of transferrin by optically measuring the degree of agglutination by an antigen-antibody reaction using monoclonal antibodies.

CONSTITUTION: Adequate and satisfactorily measurable turbidity is obtd. without diluting a vital sample such as serum by using 2 or more kinds of the monoclonal antibodies in combination. The degree of clouding can be controlled by adequately combining the monoclonal antibodies, by which adequate sensitivity is obtd. More specifically, the measurement is made in the concn. region lower than in the case of using a polyclonal antibody if 2~ several kinds of the monoclonal antibodies are used, but the concn. region extremely adequate for the transferrin is attained in the case of using the vital sample without diluting the same and the satisfactorily measurable turbidity is obtainable. The measurement is made by using the vital sample as it is without diluting the same, using 2 or more kinds of the monoclonal anti-transferrin antibodies in combination, bringing the same into reaction with the antigen-antibody reaction, irradiating light to the formed antigen-antibody complex and measuring an optical change quantity.

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